

INCUBATOR CHICKS.

Theory as to Cause of Mortality in the Shell.

There seem to be wide and varied opinions as to why chicks die in the shell. Many claim, which is true in a sense, that the germ is weak, caused by too close inbreeding. It is true also that we find weak germs at times when the parent stock is not related, writes O. P. Scott in Western Poultry Journal.

Too close confinement, with little or no exercise, or improper feeding will also cause chicks to die in the shell, the germ not being strong enough to withstand the various changes during incubation.

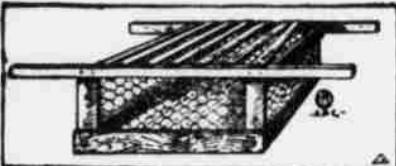
The writer is fully convinced after many careful demonstrations that while the above causes are partially true the main cause is improper ventilation, the chicks suffocating from insufficient air. The ventilation of almost all makes of incubators remains practically the same from the beginning to the end of the hatch, and while this ventilation may be just right at some stage of the hatch it certainly is not right all the way through. If the proper amount of air passes through at the beginning of the hatch, the ventilators being of a given and stationary size, then as the chick grows it must have a greater amount of air, and as it is not forthcoming suffocation follows.

The system of ventilation in incubators of today is such as to cause a draft, drying the eggs too fast, causing the membrane or lining beneath the shell of the egg to become tough, so much so that at hatching time the chick is unable to break through, many even dying in the shell after being pipped, whereas if this membrane could be kept soft and brittle as when fresh laid the chick would easily have picked its way out.

By placing a hygrometer under a sitting hen the humidity or moisture will register about 60 per cent, while in almost all makes of incubators less than half that amount will be shown. Herein lies the cause of such poor hatches in high altitudes, the air passing too rapidly through the incubator, taking the moisture from the egg too fast, drying and toughening the membrane until the chick cannot break through.

For Moving Fowls.

Another useful—in fact, almost indispensable—article around a poultry yard is a carrying box or crate, says Reliable Poultry Journal. It is necessary, especially where one is somewhat cramped for room, to be continually changing young stock from one yard or house to another, separating pullets from cockerels or doubling up yards in order to make room for others. Without a carrying crate you are obliged to



SIMPLE CARRYING CRATE.

carry the fowls by the legs, five or six fowls at a time, which not only tends to make them wild, but you are liable to injure a fine bird by reason of its trying to escape while you have both hands full. With this crate, which has a small door or loose lath in the top, you can catch a dozen or more, put them in it and transfer them wherever you wish quietly and rapidly and without injury to the birds.

Duck Notes.

Never hurry the laying ducks. It usually injures them, sometimes seriously. When handling ducks never hold them by the wings.

When sickness attacks ducks it is useless to doctor. The best remedy for duck ailments is plenty of sliced raw onion in the mash and an absolutely dry, soft bed.

When you desire Runner ducks for egg production have four to five ducks with an unrelated drake. Two ducks and one drake usually produce too large a percentage of drakes, and they don't pay to fatten.

Ducks should never be permitted to run with fowls. They both do best in pens by themselves.

When fowls and ducks are allowed to drink from the same vessel look out for disease.

Feeding Green Bone.

Some years ago Inland Poultry in referring to green bone as a poultry food said that its great value lies in its well proportioned and numerous constituents, which are just what is needed by the hen to produce eggs. In it we have lime for the shell, mineral matter for the yolk and albumen for the white. There is only one objection to green bone, which is that it is somewhat concentrated. If fed entirely on it the hens will eat too much; hence it becomes necessary to feed it in connection with such bulky food as clover or bran.

Fattening Fowls.

In fattening fowls for market much is gained through confining them in small yards, with a house to live in. If confined in this way for two weeks, fed heavily on rich fattening food and furnished plenty of water and grit they will gain surprisingly in weight and condition of flesh. All this is to the advantage of the seller, as the plumper and more attractive the carcasses the higher price they will bring in the market.—Country Gentleman.

Mash For Fowls.

Mash composed of 100 pounds corn meal, 100 pounds wheat middlings and fifty pounds wheat bran, charcoal as a regulator, if needed, tea enough of alfalfa clover to mix what they will eat

QUICK RETURN COLUMNS.

Situations Wanted Advertisements Inserted Twice Without Charge.

HELP WANTED.

WANTED—MANAGER FOR BRANCH office we wish to locate here in Astoria; address with references, The Morris Wholesale House, Cincinnati, Ohio. 3-20

WANTED—Girl for general housework; small family. Enquire at Astorian office.

FOR SALE—ONE LAUNCH—SUITABLE for service purposes, \$1000 cash; 10 h.p. power, Union Gas Engine; engine new, only used 2 months; launch 10 feet long, beam 6-8; hull rebuilt last 1905.

STOMACH INSPECTORS WANTED—Experienced men over 20, to prepare for positions paying \$75 to \$125 per month; previous experience not necessary; examination May 14th; write at once; E. O. Heynen, 214-5 Columbia Bldg., Portland, Ore. 3-

WANTED—By Chicago wholesale and mail order house, assistant manager (man or woman) for this country and adjoining territory; salary \$20 and expenses paid weekly; expense money advanced; work pleasant; position permanent; no investment or experience required; spare time valuable; write at once for full particulars and enclose self-addressed envelope. Superintendent, 132 Lake St., Chicago, Ill. 3-23

LADIES EMPLOYED TO DO FANCY work at home during spare time; no experience required; good pay and steady; address Fancy Work Dept., 1344 Market st., San Francisco. 3-8-1m

FOR SALE.

FOR SALE—NEW BAUS PIANO, Encyclopedia Britannica, 31 volumes; stamp collection, 7000 varieties. 307 9th street. 3-16

THE SHEFFIELD MARINE ENGINE, gasoline, for fish boats; any speed; best made; right price; in stock; on exhibition; running in salesroom; also Fairbanks-Morse Stationary Gasoline Engines. Fairbanks, Morse & Co., First and Stark streets, Portland, Ore. 3-1-1m

FOR SALE—CORNER LOT 50&100, 8 room house, beautifully ornamental Sycamore street shade trees, 150 feet cement sidewalk and park place, lot terraced, two cement steps, both streets recently improved, grand view, one of the finest central locations in the city. Must sell quick. Enquire 307 Ninth street.

FOR SALE—SECOND-HAND 7 COLUMN newspaper outfit; complete except press; cheap. Inquire at this office.

NOTICE FOR PROPOSALS.

SEALED PROPOSALS will be received at the office of the Light-House Inspector, Portland, Ore., until 12 o'clock M., April 2, 1906, and then opened, for furnishing and delivering fuel and provisions for vessels and stations in the Thirteenth Light-House District for the fiscal year ending June 30, 1907, in accordance with specifications, copies of which, with blank proposals and other information, may be had upon application to Commander. P. J. Werlich, U. S. N., Inspector. 3-14

CHIEF QUARTERMASTER'S OFFICE, Vancouver Barracks, Wash., February 24, 1906. Sealed proposals, in triplicate, will be received at this office until 11 o'clock a. m., March 23, 1906, and then publicly opened, for furnishing and installing gymnastic apparatus at Fort Columbia, Wash. Full information will be furnished on application to this office, and at the office of the Quartermaster, Fort Columbia, Wash. The United States reserves the right to accept or reject any or all bids or any part thereof. Envelopes containing proposals should be indorsed: "Proposals for gymnastic apparatus, Fort Columbia, Wash.," and addressed to the Chief Quartermaster, Vancouver Barracks, Wash.

MUSIC LESSONS GIVEN.

MUSIC LESSONS GIVEN ON SLIDE (tritone and all brass instruments); terms reasonable. Address "A. B.," Astoria office. 11

up clean in fifteen or twenty minutes. No succulent food beats clover.—American Cultivator.

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524 Commercial St. Astoria Oregon.

DR. VAUGHAN,

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Fythian Building, Astoria, Oregon.

Dr. W. C. LOGAN

DENTIST

78 Commercial St., Shanahan Building

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WANTED—THREE MUSIC PUPILS.
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MANDOLIN LESSONS GIVEN—MRS. C. D. Stewart, 127 Seventh street.

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CITY ADVERTISEMENTS.

NOTICE.

Resolution introduced by Councilman Be it resolved by the Common Council of the City of Astoria That said Council hereby declares its determination and intention to improve Bond street from the west line of Sixth street to the west line of McClure's Astoria in that part of the City of Astoria as laid out and recorded by John McClure and extended by Cyrus Olney in Clatsop county Oregon.

Said improvement shall consist of removing all the old stringers, sidewalks and planking and grading the street to the established grade to the full width thereof, except the portion where wooden sidewalks are constructed; and at such places the street shall be graded from curb to curb to the established grade, or to the sub grade so that when the street is improved it will be on the established grade. New sidewalks shall be constructed on both sides of the street and on the south side of the street from the west line of Fifth street to the west line of McClure's Astoria and on the north side of said street from the

CITY ADVERTISEMENTS.

west line of Fourth street to the east line of Third street the sidewalks shall be cement sidewalks five feet wide and a two-foot park space between the sidewalk and the curb and a park space of one foot between the inside edge of the sidewalk and the property line, and on the remaining portion of the street the sidewalks shall be wooden sidewalks constructed of decking two inches in thickness. Gutters shall be constructed on both sides of the street and catch basins connecting with sewers shall be constructed in each corner and all springs and scapages shall be taken up by tilting drains and lead into the gutters.

From curb to curb the street shall be macadamized or filled in with crushed rock to the depth of nine inches when thoroughly rolled and each layer of three inches shall be well rolled.

In matters of detail and improvement shall be constructed according to the plans and specifications therefor to be prepared by the City Surveyor as hereinafter provided.

That the costs and expenses of constructing said improvement shall be determined by special assessment upon the lots, lands and premises benefited by said lots, lands and premises are as follows: lots 1, 2, 3 and 4 in each of blocks 17, 18, 19, 20 and 21, and lots numbered 5, 6, 7 and 8 in each of blocks 12, 13, 14, 15 and 16, all in that part of the City of Astoria as laid out and recorded by John McClure and extended by Cyrus Olney in Clatsop county Oregon. OLOF ANDERSON, Auditor and Police Judge of the City. 3-20

NOTICE.

Notice is hereby given, that the Common Council of the City of Astoria has declared its determination and intention to re-establish the grade on Irving avenue from east line of Twenty-fifth street to the west line of Twenty-eighth street, so that said grade when so re-established will be at the following elevation upon the basis of the grades as established by ordinance No. 71 of the City of Astoria, to wit:

At the east line of Twenty-fifth street at 232 feet above the basis of grades; at the west line, and also the east line of Twenty-sixth street at 256 feet above the basis of grades; at the west, and also east line of Twenty-seventh street at 248 feet above the basis of grades; at the west line of Twenty-eighth street at 256 feet above basis of grades as now established.

That between said basis above designated, the street shall be on a gradual slope, and the same shall be level from north to south.

OLOF ANDERSON, Auditor and Police Judge of the City. 3-20

NOTICE.

Notice is hereby given, that the Common Council of the City of Astoria, has declared its intention and determination of constructing a sewer on Eighteenth street from a point of fifteen feet south of the north line of Grande avenue, to the north line of Exchange street.

From said point 15 feet south of the north line of Grande avenue, to the point 50 feet south of the south line of Franklin avenue, the sewer shall be constructed of twelve-inch vitrified sewer pipe, laid 10 feet below the grade of the street, and from said point 50 feet south of the south line of Franklin avenue, to the north line of Exchange street, the sewer shall be constructed of a wooden box 12 inches by 14 inches inside measurement, and of three-inch lumber, and shall be well fastened to the underpinning of the street.

In matters of detail, said sewer shall be constructed according to the plans and specifications therefore to be prepared by the City Surveyor.

That at said point 15 feet south of the north line of Grande avenue there shall be constructed a brick manhole into which the various creeks and box drains shall be lead. The costs and expenses of constructing said sewer shall be defrayed by special assessment upon the lot, lands and premises benefited by the same, which are described as follows:

Lots 6, 7, 8 and 9 of block 13; lots 1, 2, 3, 4, 5, 8, 9, 10, 11 and 12 in block 14; lots 4, 5 and 6 in block 24; lots 1, 2, 3 and 4 of block 23; lots 6 and 7 of block 11; lots 1, 9, 10, 11 and 12 of block 112, all in that part of the town of Astoria (now city), as laid out and recorded by John M. Shively in Clatsop county, State of Oregon.

OLOF ANDERSON, Auditor and Police Judge of the City. 3-20

TREASURER'S NOTICE.

There is money in the city treasury to pay all warrants indorsed from the 8th day of March to the 16th day of May, 1905, both inclusive. Interest will cease after this date.

THOMAS DEALEY, City Treasurer. Astoria, Ore., March 8, 1906. 3-20

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